

| B-5. | Plans and Specifications. For new facilities and for new components of existing systems, attach plans and specifications certified by a New Mexico registered professional engineer. [Section 20.6.2.1202 NMAC] | | | | | | |
|------|---|---|--|--|--|--|--|
| | X Not applicable because no new fa | acilities are proposed. | | | | | |
| | ☐ Plans and specifications are atta | ched. | | | | | |
| | ☐ Plans and specifications were pre | eviously submitted. Submittal date(s): | | | | | |
| B-6. | | descriptive details of all components of your processing, treatment, all components listed under Item A-8 in Part A. Description (construction material, liner type, irrigation method, capacity, dimensions, area, etc.) Concrete – 3200 gallons | | | | | |
| | Separator | Stainless steel - 500 gpm | | | | | |
| | Storage lagoon | Vinyl lined – 27.1 ac. ft. w/2'fb | | | | | |
| | Settling ponds (2) | Vinyl lined – 12.4 ac. ft. w/2'fb | | | | | |
| | Land Application Area | Irrigated cropland – 252 acres | | | | | |
| | Storm runoff ponds (3) | Earthen - 47.8 acre ft | | | | | |
| B-7. | disposal system. Animal feeding operations: include storr irrigation and wastewater. Domestic wastewater treatment facilities land application. Facilities using reclaimed domestic was effluent monitoring, setbacks, irrigation environment. Please refer to NMED Gr | scription of how you operate your processing, treatment, storage and/or mwater management, nutrient management plans, method for mixing so include pre-treatment, solids management, vegetation management for tewater above ground: include proposed water quality classification(s), schedules, etc. that will result in protection of public health and the bound Water Quality Bureau Guidance: Above-Ground Use of Reclaimed | | | | | |
| | website <u>www.nmenv.state.nm.us</u> under ☐ Operational plan is attached. ☐ Operational plan was previously | · | | | | | |
| B-8. | | otion of the operations and maintenance procedures which ensure that I system functions properly; e.g., inspections, pumping schedules, | | | | | |
| | X O & M procedures are attached. | | | | | | |
| | ☐ O & M procedures were previous | ly submitted. Submittal date(s): | | | | | |

Date: 29-Sep-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0909313

Project:

Cheyenne Dairy

Lab ID:

0909313-08

Client Sample ID: Cheyenne II M/W-2

Collection Date: 9/16/2009 12:48:00 PM

Date Received: 9/17/2009

Matrix: AQUEOUS

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed |
|----------------------------|------------|-----|------------|----|-----------------------|
| EPA METHOD 300.0 | | | | | Analyst: LJB |
| Chloride | 230 | 2.0 | mg/L | 20 | 9/22/2009 12:12:39 AM |
| Nitrogen, Nitrate (As N) | 18 | 1.0 | mg/L | 10 | 9/18/2009 1:51:11 AM |
| SM2540C MOD: TOTAL DISSOLV | /ED SOLIDS | • | | | Analyst: MMS |
| Total Dissolved Solids | 2230 | 200 | mg/L | 1 | 9/22/2009 3:02:00 PM |
| SM 4500 NORG C: TKN | | | | | Analyst: LJB |
| Nitrogen, Kjeldahl, Total | ND | 5.0 | mg/L | 1 | 9/21/2009 10:00:00 AM |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

Analyte detected below quantitation limits J

Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 8 of 13

Date: 29-Sep-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0909313

Project:

Cheyenne Dairy

Lab ID:

0909313-09

Client Sample ID: Cheyenne II M/W-3

Collection Date: 9/16/2009 12:20:00 PM

Date Received: 9/17/2009

Matrix: AQUEOUS

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed |
|----------------------------|-----------|------|------------|-----|-----------------------|
| EPA METHOD 300.0 | | | • | | Analyst: LJB |
| Chloride | 160 | 2.0 | mg/L | 20 | 9/22/2009 12:30:04 AM |
| Nitrogen, Nitrate (As N) | 9.0 | 0.10 | mg/L | 1 | 9/18/2009 2:08:37 AM |
| SM2540C MOD: TOTAL DISSOL\ | ED SOLIDS | | | · · | Analyst: MMS |
| Total Dissolved Solids | 2240 | 200 | mg/L | 1 | 9/22/2009 3:02:00 PM |
| SM 4500 NORG C: TKN | | | | | Analyst: LJB |
| Nitrogen, Kjeldahl, Total | ND | 5.0 | mg/L | 1 | 9/21/2009 10:00:00 AM |

| ^ | | ^ | 11 | | ^ | 3 | |
|----|---|---|----|-----|---|---|---|
| ., | м | а | 31 | 146 | | | ١ |

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 9 of 13

Date: 29-Sep-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0909377

Project:

Cheyenne Dairy

Lab ID:

0909377-03

Client Sample ID: Cheyenne II MW4

Collection Date: 9/17/2009 8:05:00 AM

Date Received: 9/18/2009

Matrix: AQUEOUS

| Lab ID: | * | | | | Data Amalumad |
|---|---------------------------------------|----------|-------|----|----------------------|
| Analyses | Result | PQL Qual | Units | DF | Date Analyzed |
| · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | | | Analyst: TAF |
| EPA METHOD 300.0 | - 200 | 2.0 | mg/L | 20 | 9/18/2009 8:10:17 PM |
| Chloride Nitrogen, Nitrate (As N) | 5.4 | 0.10 | mg/L | 1 | 9/18/2009 7:52:52 PM |
| · . | - 001 150 | • | • | - | Analyst: MMS |
| SM2540C MOD: TOTAL DISSOLVE Total Dissolved Solids | 1680 _. | 200 | mg/L | 1 | 9/24/2009 3:16:00 PM |
| | | | | | Analyst: LJB |
| SM 4500 NORG C: TKN Nitrogen, Kjeldahl, Total | ND | 5.0 | mg/L | 1 | 9/24/2009 2:40:00 PM |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 3 of 4

Date: 30-Jun-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0906124

Project:

Cheyenne Dairy

Lab ID:

0906124-16

Client Sample ID: MW-2 Cheyenne II

Collection Date: 6/4/2009 1:54:00 PM

Date Received: 6/5/2009

Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------------------------|-----------|-------|------|-------|----|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RAGS |
| Chloride | 220 | 2.0 | | mg/L | 20 | 6/6/2009 7:43:29 AM |
| Nitrogen, Nitrate (As N) | 19 | 1.0 | | mg/L | 10 | 6/6/2009 7:26:04 AM |
| SM2540C MOD: TOTAL DISSOLV | ED SOLIDS | | | • | | Analyst: SNV |
| Total Dissolved Solids | 2100 | . 200 | | mg/L | 1 | 6/7/2009 |
| SM 4500 NORG C: TKN | | • | - | | | Analyst: KMS |
| Nitrogen, Kjeldahl, Total | ND | . 10 | | mg/L | 1 | 6/10/2009 |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 16 of 18

Date: 30-Jun-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0906124

Project:

Cheyenne Dairy

Lab ID:

0906124-17

Client Sample ID: MW-3 Cheyenne II

Collection Date: 6/4/2009 12:27:00 PM

Date Received: 6/5/2009

Matrix: AQUEOUS

| Analyzag | Result | PQL Q | nal Units | DF | Date Analyzed |
|----------------------------|------------|-------|-----------|----|---------------------|
| Analyses | | | | | Analyst: RAGS |
| EPA METHOD 300.0: ANIONS | 150 | 1.0 | mg/L | 10 | 6/6/2009 5:59:00 AM |
| Chloride | | 0.10 | mg/L | 1 | 6/6/2009 5:41:35 AM |
| Nitrogen, Nitrate (As N) | 6.5 | 0.10 | High. | • | |
| SM2540C MOD: TOTAL DISSOLV | בה פטו והפ | | | | Analyst: SNV |
| | 2300 | 200 | mg/L | 1 | 6/7/2009 |
| Total Dissolved Solids | 2300 | 200 | | | |
| | | | | | Analyst: KMS |
| SM 4500 NORG C: TKN | MB | 4.0 | mg/L | 1 | 6/10/2009 |
| Nitrogen, Kjeldahl, Total | ND | 1.0 | HALL | • | |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 17 of 18

Date: 30-Jun-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0906124

Project:

Cheyenne Dairy

Lab ID:

0906124-18

Client Sample ID: MW-4 Cheyenne II

Collection Date: 6/4/2009 12:41:00 PM

Date Received: 6/5/2009

Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|-----------------------------|----------|------|------|-------|----|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RAGS |
| Chloride | 200 | 2.0 | | mg/L | 20 | 6/6/2009 5:24:10 AM |
| Nitrogen, Nitrate (As N) | 4.6 | 0.10 | | mg/L | 1 | 6/6/2009 5:06:45 AM |
| SM2540C MOD: TOTAL DISSOLVE | D SOLIDS | i | | | | Analyst: SNV |
| Total Dissolved Solids | 1700 | 200 | | mg/L | 1 | 6/7/2009 |
| SM 4500 NORG C: TKN | | | | | | Analyst: KMS |
| Nitrogen, Kjeldahl, Total | ND | 10 | | mg/L | 1 | 6/10/2009 |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

MCL Maximum Contaminant Level

RL Reporting Limit

Page 18 of 18

Date: 06-Apr-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0903305

Project:

Cheyenne Dairy

Lab ID:

0903305-13

Client Sample ID: M/W 2/Cheyenne II

Collection Date: 3/18/2009 2:33:00 PM

Date Received: 3/20/2009

Matrix: AQUEOUS

| Analyses | Result | PQL Q | ual Units | DF | Date Analyzed |
|-------------------------------|-----------|-------|-----------|----|---|
| | | | | | Analyst: RAGS |
| EPA METHOD 300.0: ANIONS | 230 | 1.0 | mg/L | 10 | 3/28/2009 11:33:14 PM |
| Chloride | | | • | 5 | 3/28/2009 11:50:38 PM |
| Nitrate (As N)+Nitrite (As N) | 21 | 1.0 | mg/L | 3 | 0/20/2000 11:00:00 1 IN |
| SM2540C MOD: TOTAL DISSOLVI | ED SOLIDS | | | | Analyst: DMG |
| | | 400 | mg/L | 1 | 3/26/2009 |
| Total Dissolved Solids | 1800 | 400 | mg/L | • | 4.2 |
| SM 4500 NORG C: TKN | • | | | | Analyst: TAF |
| | ND | 2.0 | mg/L | 1 | 3/22/2009 |
| Nitrogen, Kjeldahi, Total | ND | 2.0 | 1119, F | • | *************************************** |

| Qual | ifiers: |
|------|---------|
|------|---------|

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NO Not Detected at the Reporting Limit

 Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 13 of 17

Date: 06-Apr-09

CLIENT:

Atkins Engineering Associates

Lab Order: 0903305

Project: Cheyenne Dairy

Lab ID:

0903305-14

Client Sample ID: M/W 3/Cheyenne II

Collection Date: 3/18/2009 3:05:00 PM

Date Received: 3/20/2009

Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------|----------|-----|------|-------|-----|-----------------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RAGS |
| Chloride | 180 | 1.0 | | mg/L | 10 | 3/29/2009 12:08:03 AM |
| Nitrate (As N)+Nitrite (As N) | 7.6 | 1.0 | | mg/L | 5 | 3/29/2009 12:25:27 AM |
| SM2540C MOD: TOTAL DISSOLVE | D SOLIDS | | | | | Analyst: DM G |
| Total Dissolved Solids | 2100 | 200 | | mg/L | 1 | 3/26/2009 |
| SM 4500 NORG C: TKN | | | | | | Analyst: TAF |
| Nitrogen, Kjeldahl, Total | ND | 1.0 | | mg/L | . 1 | 3/22/2009 |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 14 of 17

Date: 06-Apr-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0903305

Project:

Cheyenne Dairy

Lab ID:

0903305-01

Client Sample ID: Cheyenne II M/W 4

Collection Date: 3/18/2009 1:47:00 PM

Date Received: 3/20/2009

Matrix: AQUEOUS

| Analyses | Result | PQL (| Qual Units | DF | Date Analyzed |
|-------------------------------|---------------------------------------|-------|--------------|----|----------------------|
| EPA METHOD 300.0: ANIONS | · · · · · · · · · · · · · · · · · · · | | | | Analyst: RAGS |
| | 200 | 1.0 | mg/L | 10 | 3/28/2009 1:08:21 PM |
| Chloride | 5.5 | 1.0 | mg/L | 5 | 3/28/2009 1:25:45 PM |
| Nitrate (As N)+Nitrite (As N) | 0.6 | 1.0 | mgr = | | |
| SM2540C MOD: TOTAL DISSOLVI | n sou ins | | | | Analyst: DMG |
| | 1500 | 100 | mg/L | 1 | 3/26/2009 |
| Total Dissolved Solids | 1000 | | ··· · | | • |
| HODO O-TI/N | | | • | | Analyst: TAF |
| SM 4500 NORG C: TKN | 4 7 | 1.0 | mg/L | 1 | 3/22/2009 |
| Nitrogen, Kjeldahl, Total | 1.7 | 1.0 | my/c | • | V |

Qualifiers:

Value exceeds Maximum Contaminant Level

Estimated value E

Analyte detected below quantitation limits J

Not Detected at the Reporting Limit ND

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

MCL Maximum Contaminant Level

RL Reporting Limit

Page 1 of 17

Date: 07-Jan-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0812399

Project:

Cheyenne Dairy

Lab ID:

0812399-09

Client Sample ID: MW-2 Cheyenne II

Collection Date: 12/17/2008 2:44:00 PM Date Received: 12/19/2008

Matrix: AQUEOUS

| Qual | Units | DF | Date Analyzed |
|------|-------|----|-----------------------|
| | | | Analyst: RAGS |
| | mg/L | 10 | 12/19/2008 2:24:10 PM |
| | mg/L | 1 | 12/19/2008 1:49:21 PM |
| | | | Analyst: TAF |
| | malt | -1 | 12/22/2008 |

| Result | PQL Qu | al Units | DF | Date Analyzed |
|--------|-------------------|--------------------------------|---|--|
| | | | | Analyst: RAGS |
| 230 | 1.0 | · mg/L | 10 | 12/19/2008 2:24:10 PM |
| 20 | 0.10 | mg/L | 1 | 12/19/2008 1:49:21 PM |
| | - | | | Analyst: TAF |
| 2200 | 400 | mg/L | 1 | 12/22/2008 |
| | | | | Analyst: TAF |
| ND | 5.0 | mg/L | 1 | 12/30/2008 |
| | 230 20 2200 | 230 1.0 20 0.10 2200 400 | 230 1.0 mg/L 20 0.10 mg/L 2200 400 mg/L | 230 1.0 mg/L 10 20 0.10 mg/L 1 2200 400 mg/L 1 |

| n | iei | H | er. | ٠. |
|---|-----|---|-----|----|

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
 - Reporting Limit

Page 9 of 10

Date: 07-Jan-09

CLIENT:

Atkins Engineering Associates

0812399

Lab Order:

Project: Lab ID: Cheyenne Dairy

0812399-10

Client Sample ID: MW-4 Cheyenne II

Collection Date: 12/17/2008 12:49:00 PM

Date Received: 12/19/2008

Matrix: AQUEOUS

| , , , , , , , , , , , , , , , , , , , | | | | | |
|---------------------------------------|--------|---------|---------|----|---------------------------|
| Analyses | Result | PQL Qua | l Units | DF | Date Analyzed |
| | | | | - | Analyst: RAGS |
| EPA METHOD 300.0: ANIONS | | 1.0 | mg/L | 10 | 12/19/2008 3:51:12 PM |
| Chloride | 210 | | • | 1 | 12/19/2008 10:55:17 AM |
| Nitrogen, Nitrate (As N) | 4.8 | 0.10 | mg/L | • | 121 torzede Potediri Carr |
| | | | • | | Analyst: TAF |
| SM 2540C: TDS | 4000 | 200 | mg/L | 1 | 12/22/2008 |
| Total Dissolved Solids | 1800 | 200 | mg/L | • | , _, _, _, _ |
| | | | | | Analyst: TAF |
| SM 4500 NORG C: TKN | | 4.0 | and the | 4 | 12/30/2008 |
| Nitrogen, Kjeldahl, Total | ND | 1.0 | mg/L | • | 12,04,2000 |
| | | | | | |

| On | alif | iers |
|----|------|------|

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits J
- Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 10 of 10

Date: 13-Jan-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0812368

Project:

Cheyenne Dairy

Lab ID:

0812368-21

Client Sample ID: MW-3 Cheyenne II

Collection Date: 12/16/2008 3:21:00 PM

Date Received: 12/18/2008

Matrix: AQUEOUS

| Analyses | Result | PQL Qua | Units | DF | Date Analyzed |
|-----------------------------------|--|---------|-------|----|------------------------|
| EPA METHOD 300.0: ANIONS | ************************************** | | | | Analyst: TAF |
| Chloride | 190 | 1.0 | mg/L | 10 | 12/19/2008 5:13:48 AM |
| Nitrogen, Nitrate (As N) | 8.3 | 0.10 | mg/L | 1 | 12/18/2008 11:49:10 AM |
| SM 2540 C: TOTAL DISSOLVED SOLIDS | | | | • | Analyst: KMS |
| Total Dissolved Solids | 2400 | 200 | mg/L | 1 | 12/19/2008 |
| BM 4500 NORG C: TKN | | | | | Analyst: TAF |
| Nitrogen, Kjeldahl, Total | ND | 1.0 | mg/L | 1 | 1/4/2009 |

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 21 of 37

Atkins Engineering Associates

CLIENT: Lab Order:

0809462

Cheyenne Dairy

Project: Lab ID:

0809462-01

Date: 14-Oct-08

Client Sample ID: MW-I (Cheyenne II)

Collection Date: 9/23/2008 3:53:00 PM

Date Received: 9/24/2008

Matrix: AQUEOUS

| Analyses | Result | PQL Qual | Units | DF | Date Analyzed |
|---------------------------------|--------|----------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SLB |
| Chloride | 89 | 1.0 | mg/L | 10 | 9/24/2008 8:36:48 PM |
| Nitrogen, Nitrate (As N) | 6.7 | 1.0 | mg/L | 10 | 9/24/2008 8:36:48 PM |
| SM 2540C TOTAL DISSOLVED SOLIDS | | | • | | Analyst: KMS |
| Total Dissolved Solids | 1600 | 400 | mg/L | 1 | 9/26/2008 |
| SM 4500 NORG C: TKN | | | | | Analyst: TAF |
| Nitrogen, Kjeldahl, Total | ND | 5.0 | mg/L | 1 | 10/1/2008 |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 1 of 12

Date: 09-Apr-08

CLIENT:

Atkins Engineering Associates

Lab Order:

0803212

Project:

Cheyenne Dairy

Lab ID:

0803212-10

Client Sample ID: Cheyenne II MW-1

Collection Date: 3/19/2008 4:45:00 PM

Date Received: 3/21/2008

Matrix: AQUEOUS

| Analyses | Result | PQL · | Qual Units | DF | Date Analyzed |
|---------------------------|--------|-------|------------|----|----------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SLB |
| Chloride | 76 | 1.0 | mg/L | 10 | 3/21/2008 3:33:49 PM |
| Nitrogen, Nitrate (As N) | 4.7 | 0.10 | mg/L | 1 | 3/21/2008 3:16:25 PM |
| SM 2540C: TDS | | | | | Analyst: TAF |
| Total Dissolved Solids | 1100 | 400 | mg/L | 1 | 3/26/2008 |
| SM4500-NORG C: TKN | | | | | Analyst: TAF |
| Nitrogen, Kjeldahl, Total | ND | 5.0 | mg/L | 1 | 4/8/2008 |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 10 of 18

Date: 18-Dec-07

CLIENT:

Atkins Engineering Associates

Lab Order:

0712074

Project:

Cheyenne Dairy

Lab ID:

0712074-11

Client Sample ID: Cheyenne II MW-1

Collection Date: 12/5/2007 3:00:00 PM

Date Received: 12/6/2007

Matrix: AQUEOUS

| Analyses | Result | PQL (| Qual Units | DF | Date Analyzed |
|---------------------------|--------|-------|------------|----|------------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SMP |
| Chloride | 73 | 1.0 | mg/L | 10 | 12/11/2007 11:37:44 AM |
| Nitrogen, Nitrate (As N) | 3.7 | 0.10 | mg/L | 1 | 12/7/2007 1:45:06 PM |
| SM 2540C: TDS | | | | | Analyst: TAF |
| Total Dissolved Solids | 780 | 400 | mg/L | 1 | 12/11/2007 |
| SM4500-NORG C: TKN | | | | | Analyst: KS |
| Nitrogen, Kjeldahl, Total | ND | 1.0 | mg/L | 1 | 12/13/2007 |

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- Not Detected at the Reporting Limit ND
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
 - Reporting Limit

Page 11 of 18

Date: 09-Jul-07

CLIENT:

Atkins Engineering Associates

Lab Order:

0706339

Project:

Cheyenne Dairy

Lab ID:

0706339-11

Client Sample ID: MW-1 Cheyenne II

Collection Date: 6/21/2007 9:04:00 AM

Date Received: 6/22/2007

Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---------------------------|--------|------|------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS | | · | **** | | | Analyst: CMS |
| Chloride | 61 | 0.50 | • | mg/L | 5 | 7/3/2007 8:23:33 PM |
| Nitrogen, Nitrate (As N) | 2.2 | 0.10 | | mg/L | 1 | 6/22/2007 7:29:25 PM |
| EPA METHOD 160.1: TDS | | | | | | Analyst: TAF |
| Total Dissolved Solids | 2000 | 400 | | mg/L | 1 | 6/27/2007 |
| EPA METHOD 351.3: TKN | | | | | | Analysi: SLB |
| Nitrogen, Kjeldahl, Total | ND | 5.0 | | mg/L | 1 | 7/5/2007 |

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Comaminam Level

RL Reporting Limit

Page 11 of 18

Date: 29-Sep-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0909313

Project:

Cheyenne Dairy

Lab ID:

0909313-13

Client Sample ID: Cheyenne II Lagoon

Collection Date: 9/16/2009 12:54:00 PM

Date Received: 9/17/2009

Matrix: AQUEOUS

| LAU ID. | 7014 | DOI O | ual Units | DF | Date Analyzed |
|----------------------------|-----------|-------|-----------|------|---|
| Analyses | Result | rQL Q | nai Chira | Dr. | |
| EPA METHOD 300.0 | | | | | Analyst: LJB |
| | 470 | 5.0 | mg/L | 50 | 9/22/2009 1:22:17 AM |
| Chloride | • • | 1.0 | mg/L | . 10 | 9/18/2009 4:45:17 AM |
| Nitrogen, Nitrate (As N) | ND | 1.0 | nig/L | . 10 | , |
| SM2540C MOD: TOTAL DISSOLV | ED SOLIDS | | | | Analyst: MMS |
| | | 200 | mg/L | 1 | 9/22/2009 3:02:00 PM |
| Total Dissolved Solids | 4540 | 200 | Hig/L | • | 4 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| SM 4500 NORG C: TKN | | • | | | Analyst: LJB |
| = | 470 | 20 | mg/L | 1 | 9/24/2009 2:40:00 PM |
| Nitrogen, Kjeldahl, Total | 470 | 20 | H.B.F | • | |

| Qu | ali | fi | er | 3: |
|----|-----|----|----|----|
| | | | | |

- Value exceeds Maximum Contaminant Level
- Estimated value E
- Analyte detected below quantitation limits J
- Not Detected at the Reporting Limit ND
 - Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Date: 30-Jun-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0906124

Project:

Cheyenne Dairy

Lab ID:

0906124-02

Client Sample ID: Cheyenne II Lagoon

Collection Date: 6/4/2009 10:15:00 AM

Date Received: 6/5/2009

Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|-----------------------------|----------|------|------|-------|------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | 4 | | | Analyst: RAGS |
| Chloride | 420 | 5.0 | | mg/L | 50 | 6/6/2009 4:49:21 AM |
| Nitrogen, Nitrate (As N) | ND | 0.50 | | mg/L | - 5 | 6/6/2009 4:31:56 AM |
| SM2540C MOD: TOTAL DISSOLVE | D SOLIDS | | | | | Analyst: SNV |
| Total Dissolved Solids | 4100 | 400 | | mg/L | 1 | 6/6/2009 |
| SM 4500 NORG C: TKN | | | | | • | Analyst: TAF |
| Nitrogen, Kjeldahl, Total | 410 | 10 | | mg/L | 1 | 6/9/2009 |

Qualifiers:

Value exceeds Maximum Contaminant Level

Estimated value E

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

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Date: 06-Apr-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0903305

Project:

Cheyenne Dairy

Lab ID:

0903305-06

Client Sample ID: Cheyenne II Lagoon

Collection Date: 3/18/2009 2:02:00 PM

Date Received: 3/20/2009

Matrix: AQUEOUS

| Analyses | Result | PQL Q | ual Units | DF | Date Analyzed |
|--|----------|-------|-----------|----|----------------------|
| <u> </u> | | | <u></u> | | Analyst: RAGS |
| EPA METHOD 300.0: ANIONS | 410 | · 2.0 | mg/L | 20 | 4/2/2009 6:07:59 AM |
| Chloride Nitrate (As N)+Nitrite (As N) | ND | 1.0 | mg/L | 5 | 4/2/2009 11:45:26 AM |
| SM2540C MOD: TOTAL DISSOLVEI | D SOLIDS | | | | Analyst: DMG |
| Total Dissolved Solids | 4000 | 400 | mg/L | 1 | 3/26/2009 |
| SM 4500 NORG C: TKN | | | | | Analyst: TAF |
| Nitrogen, Kjeldahl, Total | 510 | 10 | mg/L | 1 | 3/22/2009 |
| | | | | | |

Qualifiers:

Value exceeds Maximum Contaminant Level

Estimated value E

Analyte detected below quantitation limits

Not Detected at the Reporting Limit ND

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

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Date: 13-Jan-09

CLIENT:

Atkins Engineering Associates

Lab Order:

0812368

Project: Lab ID:

Cheyenne Dairy

0812368-02

Client Sample ID: Cheyenne Il Lagoon

Collection Date: 12/16/2008 9:20:00 AM

Date Received: 12/18/2008

Matrix: AQUEOUS

| Analyses | Result | PQL Q | ual Units | DF | Date Analyzed |
|-------------------------------|--------|-------|-----------|-------------|-----------------------|
| EPA METHOD 300.0: ANIONS | | | <u> </u> | | Analyst: RAGS |
| Chloride | 380 | 2.0 | mg/L | 20 | 12/30/2008 9:49:58 PM |
| Nitrate (As N)+Nitrite (As N) | ND | 1.0 | mg/L | 5 | 12/29/2008 6:13:29 PM |
| SM 2540 C: TOTAL DISSOLVED SO | LIDS | | | • | Analyst: KMS |
| Total Dissolved Solids | 5600 | 2000 | mg/L | . 1 | 12/18/2008 |
| SM 4500 NORG C: TKN | | | | | Analyst: TAF |
| Nitrogen, Kjeldahl, Total | 540 | 10 | mg/L | 1 | 1/3/2009 |

Qualifiers:

Value exceeds Maximum Contaminant Level

Estimated value Е

Analyte detected below quantitation limits

Not Detected at the Reporting Limit ND

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

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Date: 14-Oct-08

CLIENT:

Atkins Engineering Associates

Lab Order:

0809462

Project:

Cheyenne Dairy

Lab ID:

0809462-05

Client Sample ID: Lagoon (Cheyenne II)

Collection Date: 9/23/2008 12:28:00 PM

Date Received: 9/24/2008

Matrix: AQUEOUS

| Analyses | Result | PQL Q | ual Units | DF | Date Analyzed |
|---------------------------------|--------|-------|-----------|----|-----------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SLB |
| Chloride | 360 | 2.0 | mg/L | 20 | 9/24/2008 11:13:30 PM |
| Nitrogen, Nitrate (As N) | ND | 2.0 | mg/L | 20 | 9/24/2008 11:13:30 PM |
| SM 2540C TOTAL DISSOLVED SOLIDS | | | | | Analyst: KMS |
| Total Dissolved Solids | 4000 | . 400 | mg/L | 1 | 9/30/2008 |
| SM 4500 NORG C: TKN | | | | | Analyst: TAF |
| Nitrogen, Kjeldahl, Total | 330 | . 10 | . mg/L | 1 | 10/4/2008 |

| Qualif | iers: |
|--------|-------|
|--------|-------|

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
 - RL Reporting Limit

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Date: 06-Jan-03

CLIENT: Lab Order: Atkins Engineering Associates

0212149

Cheyenne Dairy #2

Project: Lab ID:

0212149-03

Client Sample ID: MW-3

Collection Date: 12/26/2002 11:45:00 AM

Matrix: AQUEOUS

| Analyses | Result | Limit | Qual Unit | s DF | Date Analyzed |
|----------------------------|--------|-------|-----------|------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: HVA |
| Chloride | 140 | 1.0 | mg/L | 10 | 12/31/2002 |
| X Nitrogen, Nitrate (As N) | 29 | 1.0 | mg/L | 10 | 12/31/2002 |
| EPA METHOD 160.1: TDS | | | | | Analyst: MAP |
| Total Dissolved Solids | 3100 | 1.0 | mg/L | 1 | 1/2/2003 |
| EPA METHOD 351.3: TKN | | | | | Analyst: MAP |
| Nitrogen, Kjeldahl, Total | ND | 1.0 | mg/L | 1 | 12/31/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

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Inghest NO3-N Not sure what its monitoring peran orchard?

Date: 18-Dec-07

CLIENT:

Atkins Engineering Associates

Lab Order:

0712074

Project:

Cheyenne Dairy

Lab ID:

0712074-15

Client Sample ID: Cheyenne II Lagoon

Collection Date: 12/5/2007 2:50:00 PM

Date Received: 12/6/2007

Matrix: AQUEOUS

| Analyses | Result | PQL Qual | Units | DF | Date Analyzed |
|---------------------------|--------|----------|-------|-------------|----------------------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SMP |
| Chloride | 550 | 2.0 | mg/L | 20 | 12/7/2007 1:10:17 PM |
| Nitrogen, Nitrate (As N) | ND | 2.0 | mg/L | 20 | 12/7/2007 1:10:17 PM |
| SM 2540C: TDS | | | | | Analyst TAF |
| Total Dissolved Solids | 5400 | 2000 | mg/L | 1 | 12/11/2007 |
| SM4500-NORG C: TKN | | | • | | |
| Nitrogen, Kjeldahl, Total | 990 | 20 | mg/L | 1 | Analyst: KS 12/13/2007 |

Qualifiers:

Value exceeds Maximum Contaminant Level

Value above quantitation range E

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

Reporting Limit

15

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5601 19th Street Lubbock, Texas 79407 P.O. Box 16652 Lubbock, Texas 79490 Tel: (806) 796-2805 Fax: (806) 796-2825

> ANALYTICAL RESULTS FOR **COWBELL TESTING** ATTN: AMY MUNSON P. O. BOX 310

HAGERMAN, NM 88232 PHONE: (505) 752-0939

Receiving Date: 07/25/05

Reporting Date: 08/06/05

Project Number: NOT GIVEN

Project Name: CHEYENNE DAIRY 2 Project Location: DEXTER, NM

Sampling Date: 07/22/05

Sample Type: WELL H₂O, WASTE H₂O

Sample Condition: COOL & INTACT

Sample Received By: MR Analyzed By: RG, CW

| | | TDS | Chlorides | TKN | NO ₃ -NO ₂ -N |
|----------------------|---|----------|-----------|----------|-------------------------------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (mg/L) | (mg/L) |
| Date Analysis Batch | Started: | 07/26/05 | 08/01/05 | 08/01/05 | 08/04/05 |
| Time Analysis Batch | n Started: | 9:35 | 10:00 | 12:00 | 10:00 |
| | | | | | |
| AJ9373-1 | MW 1 | 1115 | 50 | < 0.2 * | 2.2 |
| AJ9373-2 | MW 2 | 1720 | 125 | < 0.2 * | 22.5 |
| AJ9373-3 | MW 3 | 2520 | 130 | 0.3 | 16.3 |
| AJ9373-4 | MW 4 | 1575 | 210 | < 0.2 * | 0.37 |
| AJ9373-5 | LAGOON | 6400 | 630 | 560 | 0.10 |
| | 7 (A.S. 10) (A.S. 77 (P. N. 100) P. N. 100 (P. N. 100) P. N. 10 (A.S. 10) | | | | |
| | | | | | |
| Date Analysis Batch | Finished: | 07/27/05 | 08/01/05 | 08/01/05 | 08/04/05 |
| Time Analysis Batch | r Finished: | 13:00 | 14:30 | 17:00 | 12:30 |
| | THE RESERVE THE PERSON NAMED IN COLUMN 18 TO A THE | | | | |
| Blank | | < 1 | < 1 | < 0.2 | < 0.01 |
| Quality Control | | 996 | 50 | 5.28 | 0.329 |
| True Value QC | | 1000 | 50 | 5.00 | 0.300 |
| % Instrument Accura | acy | 100 | 100 | 106 | 110 |
| % Extraction Accura | асу | N/A | 102 | 102 | 108 |
| Relative Percent Dif | ference | 0 | 2 | 3 | 2 |

160.1

4500B-Cl

351.4

METHODS: EPA 600/4-79-020,

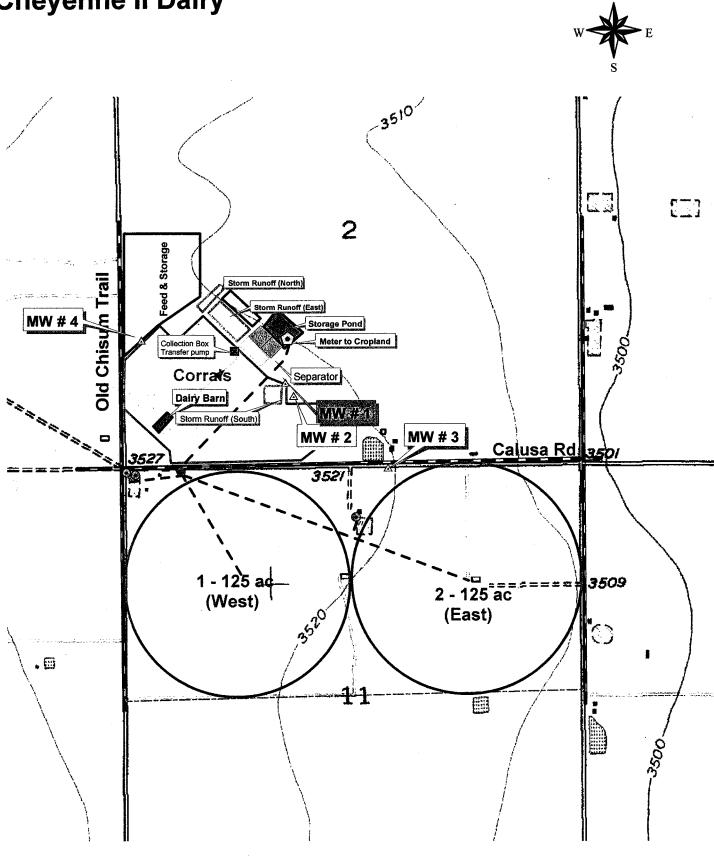
08-06-05

353.3

^{*}Less than the Minimum Detection Limit.

Cheyenne II Dairy

2000



2000 Feet